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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.		MSC-23518-1				
First Inventor		k	Karen M. Taminger			
Title	Solid Freeform	Fa	brication Apparatus and Method			
Everes Mail Label No. 5			EL1657647867LIS			

IIOMOMITTAL					parar			
(Only for new nonprovisional applications under 37 CFR 1.53(b))			Express Mail Label No. EU657647867US					
	TION ELEMENTS eming utility patent application contents.	ADI	DRESS TO: Box	istant Cor Patent A shington,	pplicat			
Fee Transmittal For (Submit an original and a constitution of the	orm (e.g., PTO/SB/17) httplicate for fee processing) mall entity status. [Total Pages 48] set forth below) of the invention e to Related Applications arding Fed sponsored R & D quence listing, a table, rogram listing appendix the Invention of the Invention of the Drawings (if filed) otion Disclosure S.C. 113) [Total Sheets 3	(ii a. b. c. 9. 10.	CD-ROM or CD-R in Computer Program acleotide and/or Amino A applicable, all necessar Computer Readat Specification Sequence i. CD-ROM of ii. paper Statements verify ACCOMPANYING ASsignment Paper 37 CFR 3.73(b) Statements is an English Translation Information Disclosure in Infor	n duplicate (Appendia cid Seque y) ble Form (Listing of or CD-R (2 ing identit APPLIC s (cover s atement assignee) n Docume	e, large x) ence S CRF) n: 2 copie y of ab	e table or Submission Submission Pove copies Submission Submission Pove copies Submission Attorney Submission Attorney Submission Applicable Copies of IDS		
a. Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) b. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76			12. Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other: Letter W/certificate of mailing					
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Fror application information: Examiner: Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the agree appaying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a port of the disclosure of the submitted application parts.								
Customer Number or Bar Code Label (Insert Confirm South har seed label here). Or Correspondence address below								
Name	Theodore U. Ro							
Address	NASA Johnson Space Center Address 2101 NASA Road One Mailcode: HA							
City	Houston		State TX		Code	77058		
Country		lephone	281-244-7148	Fa	ax	281-244-8452		
Name (Print/Type)	Theodore U. Ro	Reg	gistration No. (Attorne	y/Agent)		52,168		
Signature			Date	08/0	1/2003			

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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PTO/SB/17 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 1	744	വ
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Complete if Known				
Application Number				
Filing Date	8/1/2003			
First Named Inventor	Karen M. Taminger			
Examiner Name				
Art Unit				
Attorney Docket No.	MCC_23518_1			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	<u>Large</u> I	Entity				
Deposit 14-0116	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number	1051	130	2051	,	Surcharge - late filing fee or oath	ree Faiu
Deposit Account National Aeronautics and	1052	50	2052	25	Surcharge - late provisional filing fee or	
Name	1053	130	1053	130	cover sheet Non-English specification	
The Director is authorized to: (check all that apply)		2.520			For filing a request for ex parte reexamination	
Charge fee(s) indicated below Credit any overpayments	1804	920*	1804	•	Requesting publication of SIR prior to	
Charge any additional fee(s) during the pendency of this application					Examiner action	\vdash
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	410	2252	205	Extension for reply within second month	
Large Entity Small Entity	1253	930	2253	465	Extension for reply within third month	
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,450	2254	725	Extension for reply within fourth month	
1001 750 2001 275 11486-58	1255	1,970	2255	985	Extension for reply within fifth month	
1002 330 2002 165 Design filing fee 750.00	1401	320	2401	160	Notice of Appeal	
1003 520 2003 260 Plant filing fee	1402	320	2402	160	Filing a brief in support of an appeal	
1004 750 2004 375 Reissue filing fee	1403	280	2403	140	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 750-00	1452	110	2452	55	Petition to revive - unavoidable	
	1453	1,300	2453	650	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Utility issue fee (or reissue)	
Extra Claims below Fee Paid Total Claims 59 20* 39 x 18 4702	1502	470	2502	235	Design issue fee	
Independent 6 3 × 84 252	1503	630	2503	315	Plant issue fee	
Claims 5 3 = 5 1 1 1 2 2 2 3 1 1 2 2 2 3 1	1460	130	1460	130	Petitions to the Commissioner	
	1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt	40.00
Code (\$) Code (\$)	8021	40	8021	1 40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3	1809	750	2809	375	Filing a submission after final rejection	
1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid	4040	750	0040		(37 CFR 1.129(a))	
1204 84 2204 42 ** Reissue independent claims	1810	750	2810	3/5	For each additional invention to be examined (37 CFR 1.129(b))	
over original patent	1801	750	2801	375	Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
(0)	Other fee (specify)					
SUBTOTAL (2) (\$) 954.00 **or number previously paid, if greater; For Reissues, see above	*Redu	ced by	Basic I	Filing F	ee Paid SUBTOTAL (3) (\$) 40.0	00

SUBMITTED BY (Complete (if applicable) 281-244-7148 Theodore U. Ro Registration No. 52,168 Name (Print/Type) Telephone Signature Date

> WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Sean O'Keefe) Group Art) Unit:
First Named Inventor:	Karen M. Taminger)
Serial No.:)
Filed:	August 1, 2003)
For:	Solid Freeform Fabrication Apparatus and)
	Methods)

Letter

MS Patent Application Commissioner for Patents P. O. Box 1450 Alexander, VA 22313-1450

Sir:

The enclosed application is being filed in accordance with Rules 1.10 and 1.53(b) in order to obtain a filing date of August 1, 2003. The application is being sent by Express Mail "Post Office to Addressee" under Certificate EU657647867US.

Respectfully submitted,

Theodore U. Ro, Reg. No. 52,168

Attorney for Applicant

Houston, Texas 77058

Telephone: 281-244-7148 or 281-483-4871

Datafax: 281-244-8452

I hereby certify that the attached application "Solid Freeform Fabrication Apparatus and Methods," is being deposited with the United States Postal Service on August 1, 2003, as Express Mail "Post Office to Addressee" under Certificate No. EU657647867US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

f), f

Tanya B. Jefferson

PTO/SB/35 (11-00)

Approved for use through 10/31/2002, OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor	Karen M. Taminger			
Title Solid Freeform Fabrication Apparatus and Meth				
Atty Docket Number	MSC-23518-1			

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

0///03 Date

Signature

Therelon K.

Theodore U. Ro, #52,168

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.